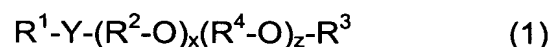


Amendments to the Claims

1. (Currently Amended) An aqueous plant protection formulation in the form of a suspension comprising at least one polymer ~~which can be prepared by radical~~ copolymerization of

- A) acrylamidopropylmethylenesulfonic acid (AMPS) and/or its salts;
- B) one or more macromonomers according to formula (1)



~~in which~~ wherein

R¹ is a vinyl, allyl, acryloyl, methacryloyl, seneciroyl or crotonyl residue;

R² and R⁴ are, independently of one another, (C₂-C₄)-alkylene;

x and z are, independently of one another, a whole number between 0 and 500, with x+z greater than or equal to 1;

Y is O, S, PH or NH, ~~preferably O~~; and

R³ is hydrogen or a saturated or unsaturated, linear or branched, aliphatic, cycloaliphatic or aromatic (C₁-C₁₀₀)-hydrocarbon residue, ~~preferably (C₄-C₃₀)-hydrocarbon residue~~,
and

C) optionally one or more other at least mono- or polyolefinically unsaturated oxygen-, nitrogen-, sulfur-, phosphorus-, chlorine- and/or fluorine-~~comprising~~ containing comonomers.

2. (Original) A plant protection formulation as claimed in claim 1, wherein the comonomer A) is the sodium salt and/or ammonium salt of acrylamidopropylmethylenesulfonic acid (AMPS).

3. (Currently Amended) A plant protection formulation as claimed in claim 1 or 2, wherein

R^1 is an acryloyl or methacryloyl residue;

R^2 and R^4 are, independently of one another, C_2 -alkylene or C_3 -alkylene;

x and z are, independently of one another, an integer between 0 and 50, with x+z greater than or equal to 1;

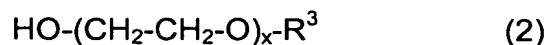
R^3 is an aliphatic (C_4 - C_{22})-alkyl or -alkenyl residue, ~~preferably (C_{10} - C_{22})-alkyl or -alkenyl residue;~~ a phenyl residue; a (C_1 - C_{22})-alkylphenyl residue, ~~preferably sec-butyl or n-butylphenyl residue;~~ a poly((C_1 - C_{22})-alkyl)phenyl residue, ~~preferably tris(sec-butyl)phenyl residue or tris(n-butyl)phenyl residue;~~ or a polystyrylphenyl residue, ~~preferably tristyrylphenyl residue.~~

4. (Original) A plant protection formulation as claimed in claim 3, wherein the R^3 residue is a 2,4,6-tris(sec-butyl)phenyl residue or 2,4,6-tris(1-phenylethyl)phenyl residue.

5. (Currently Amended) A plant protection formulation as claimed in claim 1, wherein the ~~polymers can be~~ at least one polymer is prepared by radical copolymerization of

A) acrylamidopropylmethylenesulfonic acid (AMPS), the sodium salt of acrylamidopropylmethylenesulfonic acid (AMPS) and/or the ammonium salt of acrylamidopropylmethylenesulfonic acid, ~~preferably the ammonium salt of acrylamidopropylmethylenesulfonic acid (AMPS);~~

B) one or more macromonomers ~~chosen~~ selected from the group consisting of ~~the esters~~ formed from methacrylic acid or acrylic acid, ~~preferably methacrylic acid,~~ and compounds of the formula (2)



~~in which wherein~~ x is a number between 1 and 50, ~~particularly preferably 5 and 30~~, and R³ is a (C₁₀-C₂₂)-alkyl residue; and

- C) optionally one or more comonomers ~~chosen~~ selected from the group consisting of acrylamide, vinylformamide, N-vinylmethacetamide, sodium methallylsulfonate, hydroxyethyl methacrylate, acrylic acid, methacrylic acid, maleic anhydride, methacrylamide, vinyl acetate, N-vinylpyrrolidone, vinylphosphonic acid, styrene, styrenesulfonic acid (Na salt), t-butyl acrylate and methyl methacrylate.

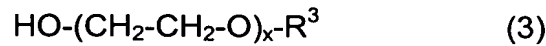
6. (Currently Amended) A plant protection formulation as claimed in ~~at least one of claims 1 to 5~~ claim 1, wherein the one or more macromonomers B) are esters formed from acrylic acid or methacrylic acid ~~and or~~ alkyl ethoxylates chosen selected from the group consisting of the

(C₁₀-C₁₈)-fatty alcohol polyglycol ethers with 8 EO units, C₁₁-oxo alcohol polyglycol ethers with 8 EO units, (C₁₂-C₁₄)-fatty alcohol polyglycol ethers with 7 EO units, (C₁₂-C₁₄)-fatty alcohol polyglycol ethers with 11 EO units, (C₁₆-C₁₈)-fatty alcohol polyglycol ethers with 8 EO units, (C₁₆-C₁₈)-fatty alcohol polyglycol ethers with 15 EO units, (C₁₆-C₁₈)-fatty alcohol polyglycol ethers with 11 EO units, (C₁₆-C₁₈)-fatty alcohol polyglycol ethers with 20 EO units, (C₁₆-C₁₈)-fatty alcohol polyglycol ethers with 25 EO units, (C₁₈-C₂₂)-fatty alcohol polyglycol ethers with 25 EO units, iso(C₁₆-C₁₈)-fatty alcohol polyglycol ethers with 25 EO units ~~and/or~~ and C₂₂-fatty alcohol polyglycol ethers with 25 EO units.

7. (Currently Amended) A plant protection formulation as claimed in claim 1, wherein the ~~polymers can be~~ at least one polymer is prepared by radical copolymerization of

- A) acrylamidopropylmethylenesulfonic acid (AMPS), the sodium salt of acrylamidopropylmethylenesulfonic acid (AMPS) and/or the ammonium salt of acrylamidopropylmethylenesulfonic acid, ~~preferably the ammonium salt of acrylamidopropylmethylenesulfonic acid (AMPS)~~;

- B) one or more macromonomers ~~chosen~~ selected from the group consisting of ~~the esters formed from methacrylic acid or acrylic acid, preferably methacrylic acid, and compounds of the formula (3)~~



~~in which~~ wherein

x is a number between 1 and 50, ~~particularly preferably 5 and 30, and~~
R³ is a poly((C₁-C₂₂)-alkyl)phenyl residue, ~~preferably tris(sec-butyl)phenyl residue or tris(n-butyl)phenyl residue, particularly preferably 2,4,6-tris(sec-butyl)phenyl residue, or a tris(styryl)phenyl residue, preferably 2,4,6-tris(1-phenylethyl)phenyl residue; and~~

- C) optionally one or more comonomers ~~chosen~~ selected from the group consisting of acrylamide, vinylformamide, N-vinylmethacrylamide, sodium methallylsulfonate, hydroxyethyl methacrylate, acrylic acid, methacrylic acid, maleic anhydride, methacrylamide, vinyl acetate, N-vinylpyrrolidone, vinylphosphonic acid, styrene, styrenesulfonic acid (Na salt), t-butyl acrylate and methyl methacrylate.

8. (Currently Amended) A plant protection formulation as claimed in ~~at least one of claims 1 to 7~~ claim 1, wherein the proportion of macromonomers B) in the ~~polymers at least one polymer is 50.1 to 99.9 % by weight, preferably 70 to 95 % by weight, particularly preferably 80 to 94 % by weight.~~

9. (Currently Amended) A plant protection formulation as claimed in ~~at least one of claims 1 to 7~~ claim 1, wherein the proportion of macromonomers B) in the ~~polymers at least one polymer is 0.1 to 50 % by weight, preferably 5 to 25 % by weight, particularly preferably 6 to 20 % by weight.~~

10. (Currently Amended) A plant protection formulation as claimed in ~~at least one of claims 1 to 9~~claim 1, wherein the number-average molecular weight of the ~~polymers at least one polymer~~ is 1000 to 20 000 000 g/mol, ~~preferably 20 000 to 5 000 000 g/mol, particularly preferably 50 000 to 1 500 000 g/mol.~~

11. (Currently Amended) A plant protection formulation as claimed in ~~at least one of claims 1 to 10~~claim 1, wherein the ~~polymers are~~at least one polymer is crosslinked.

12. (Currently Amended) A plant protection formulation as claimed in ~~at least one of claims 1 to 11~~claim 1, wherein the radical copolymerization ~~being is a precipitation polymerization reaction, preferably in tert-butanol.~~

13. (Currently Amended) A suspension concentrate comprising a plant protection formulation as claimed in ~~at least one of claims 1 to 12, which is a suspension concentrate~~claim 1.

14. (Currently Amended) A suspension concentrate as claimed in claim 13, wherein the water content, ~~with reference to the~~of a ready-mix formulation, is 10 to 50 % by weight, ~~preferably 10 to 45 % by weight, particularly preferably 25 to 45 % by weight.~~

15. (Currently Amended) A suspension concentrate as claimed in claim 13 ~~and/or 14~~, wherein the proportion of the ~~polymers~~at least one polymer, with ~~reference to the~~in a ready-mix formulation, is 0.01 to 10 % by weight, ~~preferably 0.01 to 5 % by weight.~~

16. (Currently Amended) A suspension concentrate as claimed in ~~at least one of claims 1 to 15, which additionally comprises~~claim 1, further comprising at least one dispersant.

17. (Currently Amended) A suspension concentrate as claimed in claim 16, ~~which comprises, as~~wherein the at least one dispersant, is selected from the group consisting of phosphoric acid esters and phosphoric acid ester salts of fatty alcohols and fatty alcohol alkoxylates, ~~preferably poly(arylalkyl)phenol-polyethylene glycol phosphoric acid esters and tristyryl polyglycol ether phosphates;~~ methoxycarbonylcellulose; methylcellulose; starch; alginates; sulfonated naphthalene-formaldehyde condensates; lignosulfonates; polyvinylpyrrolidone ~~and/or~~and polyvinyl alcohol.

18. (Currently Amended) A suspension concentrate as claimed in ~~at least one of claims 13 to 17, which comprises~~ claim 13, comprising, with reference to the ~~in a~~ ready-mix suspension concentrate, 0.5 to 10 % by weight, ~~particularly preferably 0.5 to 5 % by weight, of dispersants of the at least one dispersant~~ and 0.01 to 2.5 % by weight, ~~preferably 0.025 to 1 % by weight, of polymers of the at least one polymer.~~

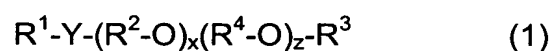
19. (Currently Amended) A suspension concentrate as claimed in ~~at least one of claims 13 to 18, claim 13, further comprising at least one pesticide and~~ wherein the proportion of pesticides, ~~with reference to the the at least one pesticide, in a~~ ready-mix suspension concentrate, is 10-90 % by weight, ~~preferably 30 to 60 % by weight, particularly preferably 40 to 50 % by weight.~~

20. (Currently Amended) A plant protection formulation as claimed in ~~at least one of claims 1 to 19, which comprises~~ claim 1, further comprising at least one pesticide which is sparingly soluble in water.

21. (Currently Amended) A plant protection formulation as claimed in ~~at least one of claims 1 to 20, which comprises~~ claim 1, further comprising at least one pesticide which is sparingly soluble in water and at least one pesticide which is readily soluble in water.

22. (Currently Amended) A method for increasing the suspensibility of a plant protection formulation in the form of a suspension comprising the step of adding to the plant formulation at least one polymer ~~Use of polymers which can be prepared by radical copolymerization of~~

- A) acrylamidopropylmethylenesulfonic acid (AMPS) and/or its salts;
- B) one or more macromonomers according to formula (1)



~~in which~~ wherein

R¹ is a vinyl, allyl, acryloyl, methacryloyl, seneciroyl or crotonyl residue;

R² and R⁴ are, independently of one another, (C₂-C₄)-alkylene;

x and z are, independently of one another, a whole number between 0 and 500, with x+z greater than or equal to 1;

Y is O, S, PH or NH, ~~preferably O~~; and

R³ is hydrogen or a saturated or unsaturated, linear or branched, aliphatic, cycloaliphatic or aromatic (C₁-C₁₀₀)- hydrocarbon residue, ~~preferably (C₄-C₃₀)-hydrocarbon residue,~~
and

- C) optionally one or more other at least mono- or polyolefinically unsaturated oxygen-, nitrogen-, sulfur-, phosphorus-, chlorine- and/or fluorine-~~comprising~~ containing comonomers,

~~for increasing the suspensibility of plant protection formulations present in the form of suspensions.~~

23. (Currently Amended) The use method as claimed in claim 22, wherein the plant protection ~~formulations are~~ formulation is a suspension ~~concentrates~~ concentrate.

24. (New) A plant protection formulation as claimed in claim 1, wherein Y is oxygen.
25. (New) A plant protection formulation as claimed in claim 1, wherein R³ is a (C₁-C₃₀)-hydrocarbon residue.
26. (New) A plant protection formulation as claimed in claim 3, wherein R³ is a (C₁₀-C₂₂)-alkyl or -alkenyl residue.
27. (New) A plant protection formulation as claimed in claim 3, wherein R³ is a sec-butyl- or n-butylphenyl residue.
28. (New) A plant protection formulation as claimed in claim 3, wherein R³ is a tris(sec-butyl)phenyl residue or tris(n-butyl)phenyl residue.
29. (New) A plant protection formulation as claimed in claim 3, wherein R³ is a tristyrylphenyl residue.
30. (New) A plant protection formulation as claimed in claim 5, wherein the comonomer A) is the ammonium salt of acrylamidopropylmethylenesulfonic acid.
31. (New) A plant protection formulation as claimed in claim 5, wherein the one or more macromonomers B) is an ester formed from methacrylic acid.
32. (New) A plant protection formulation as claimed in claim 5, wherein x is between 5 and 30.
33. (New) A plant protection formulation as claimed in claim 7, wherein the comonomer A) is the ammonium salt of acrylamidopropylmethylenesulfonic acid.

34. (New) A plant protection formulation as claimed in claim 7, wherein the one or more macromonomers is an ester formed from methacrylic acid.
35. (New) A plant protection formulation as claimed in claim 7, wherein x is between 5 and 30.
36. (New) A plant protection formulation as claimed in claim 7, wherein R³ is a tris(sec-butyl)phenyl residue or tris(n-butyl)phenyl residue.
37. (New) A plant protection formulation as claimed in claim 7, wherein R³ is a 2,4,6-tris(sec-butyl)phenyl residue.
38. (New) A plant protection formulation as claimed in claim 7, wherein R³ is a 2,4,6-tris(1-phenylethyl)phenyl residue.
39. (New) A plant protection formulation as claimed in claim 1, wherein the proportion of macromonomers B) in the at least one polymer is 70 to 95% by weight.
40. (New) A plant protection formulation as claimed in claim 1, wherein the proportion of macromonomers B) in the at least one polymer is 80 to 94% by weight.
41. (New) A plant protection formulation as claimed claim 1, wherein the proportion of macromonomers B) in the at least one polymer is 5 to 25%.
42. (New) A plant protection formulation as claimed claim 1, wherein the proportion of macromonomers B) in the at least one polymer is 6 to 20%.
43. (New) A plant protection formulation as claimed in claim 1, wherein the number-average molecular weight of the at least one polymer is 20 000 to 5 000 000 g/mol.

44. (New) A plant protection formulation as claimed in claim 1, wherein the number-average molecular weight of the at least one polymer is 50 000 to 1 500 000 g/mol.
45. (New) A plant protection formulation as claimed in claim 12, wherein the precipitation polymerization reaction occurs in tert-butanol.
46. (New) A suspension concentrate as claimed in claim 13, wherein the water content, of a ready-mix formulation, is 10 to 45% by weight.
47. (New) A suspension concentrate as claimed in claim 13, wherein the water content, of a ready-mix formulation, is 25 to 45% by weight.
48. (New) A suspension concentrate as claimed in claim 13, wherein the proportion of the at least one polymer, in a ready-mix formulation, is 0.01 to 5% by weight.
49. (New) A suspension concentrate as claimed in claim 16, wherein the at least one dispersant is a poly(arylalkyl)phenol polyethylene glycol phosphoric acid ester or a tristyryl polyglycol ether phosphate.
50. (New) A suspension concentrate as claimed in claim 13, comprising, in a ready mix suspension concentrate, 0.5 to 5% by weight of the at least one dispersant and 0.025 to 1% by weight of the at least one polymer.
51. (New) A suspension concentrate as claimed in claim 13, further comprising at least one pesticide and wherein the proportion of the at least one pesticide, in a ready-mix suspension concentrate, is 30 to 60% by weight.

52. (New) A suspension concentrate as claimed in claim 13, further comprising at least one pesticide and wherein the proportion of the at least one pesticide, in a ready-mix suspension concentrate, is 40 to 50% by weight.
53. (New) The method as claimed in claim 22, wherein Y is oxygen.
54. (New) The method as claimed in claim 22, wherein R³ is a (C₁-C₃₀)-hydrocarbon residue.